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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,896	12/22/2004	John Mi. Wood	540-540	1343
23117 75	590 10/06/2005		EXAMINER	
NIXON & VANDERHYE, PC			NGUYEN, KHAI M	
901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
AKLINGTON,	VA 22203		2819	
			DATE MAILED: 10/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/518,896	WOOD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Khai M. Nguyen	2819			
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL. - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica. If NO period for reply is specified above, the maximum statutor. - Failure to reply within the set or extended period for reply will, the Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNIC CFR 1.136(a). In no event, however, may a re- tion. y period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed or	n <u>22 December 2004</u> .				
2a) This action is FINAL . 2b)	·				
3) Since this application is in condition for a	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice u	nder <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-14</u> is/are pending in the appli	cation.				
4a) Of the above claim(s) is/are w					
5)⊠ Claim(s) <u>1-14</u> is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	and/or election requirement.				
Application Papers					
9)⊠ The specification is objected to by the Ex	aminer.				
10)⊠ The drawing(s) filed on <u>12/22/2004</u> is/are		d to by the Examiner.			
Applicant may not request that any objection	to the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the	correction is required if the drawing(s	s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for f a) All b) Some * c) None of: 1. Certified copies of the priority doc 		119(a)-(d) or (f).			
2. Certified copies of the priority doc	uments have been received in Ap	pplication No			
Copies of the certified copies of the	ne priority documents have been r	received in this National Stage			
application from the International					
* See the attached detailed Office action fo	r a list of the certified copies not r	eceived.			
Attachment(c)					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) X Interview Su	ummary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-9	Paper No(s))/Mail Date			
 Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date <u>12/22/2004</u>. 	/SB/08) 5) \(\bigcap \text{Notice of Inf} \) 6) \(\bigcap \text{Other: } \(\bigcap \)	formal Patent Application (PTO-152)			

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DETAILED ACTION

Drawings

1. The drawings filed on 12/22/2004 are not formal. New formal drawings are required in response to this office action.

Specification

2. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if

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the required "Sequence Listing" is not submitted as an electronic document on compact disc).

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Stanley C. Spooner on September 28, 2005.

Claim 14, line 1, the phrase "A computer program product" has been replaced by -- A computer readable medium --.

Allowable Subject Matter

4. Claims 1-14 are allowed.

The following is an examiner's statement of reasons for allowance: none of the prior art of record (including the best references cited on the international search report and PTO-892 Form attached herewith) discloses a calibration apparatus for (and/or method of) calibrating a time interleaved analog-to-digital sampler that includes means for injecting in turn N calibration signals into the input of the sampler such that each calibration signal occupies at least one of N related frequencies and means for measuring in the frequency domain of the interleaved sampled data the output signal at each of the N related frequencies for each one of the N calibration frequencies.

Therefore, claims 1-14 are allowed.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571-272-1809. The examiner can normally be reached on 9:00 - 5:30 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert (Bob) J. Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 28, 2005

Khai M. Nguyen Art Unit: 2819 571-272-1809 PEGUNJEANPIERRE PRIMARY EXAMINER